



FIRE APPARATUS PURCHASE

CITY COUNCIL MEETING

Ari Delay, Fire Chief

January 26, 2021



Objective

- ▲ Provide an overview of the Fire Department vehicle fleet
- ▲ Receive a presentation on apparatus lease purchase request for 2 Type I Fire Engines

Agenda



- I. Provide an overview of our current fleet
- II. Review current apparatus due for replacement
- III. Describe elements used to determine apparatus replacement schedule
- IV. Review replacement options considered
- V. Review lease obligation / timing
- VI. Tonight's action
- VII. Questions

Fire Department Vehicle Types

Fire Engines



Fire Trucks





Engines

- ▲ Primary resource to carry
 - Carry water
 - pump water
 - carry hose
 - carry ladders

- ▲ E-51, E-52 Advanced Life Support



Trucks

- ▲ Primary resource to ventilate buildings
 - Ladder allows access to roofs
 - Carries blowers to move smoke
- ▲ Primary resource to search buildings on fire
 - Carry specialized cameras that see through smoke
 - Carry tools and equipment to force entry to buildings
- ▲ Primary resource to extricate trapped occupants of a vehicle accident
- ▲ T-51 Advanced Life Support



SUV / Pickups

- ▲ SUV Primary resource to provide command and
 - Chief 16
 - Battalion 16
 - Prevention 16
 - Prevention 16A
- ▲ Pickup Truck
 - Utility 51 (Incident support)



Fleet Status

Apparatus - San Bruno Fire Department			
Vehicle ID	Year	Vehicle Type	Mileage
Staff Vehicles			
Chief 16	2017	SUV	54,753
Battalion 16	2016	SUV	21,454
Prevention 16	2019	Pickup Truck	7,879
PREVENTION 16A	2019	SUV	4,352
Utility 51	2015	Pickup Truck	11362
Fire Apparatus			
Engine 51	2017	Type 1 Engine	40,159
Engine 151	2001	Type 1 Engine (RESERVE)	112,919
Engine 52	2011	Type 1 Engine	82,279
Engine 152	2000	Type 1 Engine (RESERVE)	141,625
Truck 51	2016	Type 1 Truck	19,042
Truck 151	2000	Type 1 Truck (RESERVE)	100,980



Fire Apparatus Lifecycle

- ▲ NFPA Standard 1901 (Industry standard)
 - Our recommendation based on all factors is
 - 10 Years frontline
 - 10 Years reserve
 - Apparatus will be removed from the fleet and deemed surplus after 20 years



APPARATUS TO BE REPLACED

Fire Engine (20 YEARS)

E-151

2001

Type I Engine

112,919 Miles

500 Gallons

1500 GPM



E-152

2000

Type I Engine

141,624 Miles

500 Gallons

1500 GPM





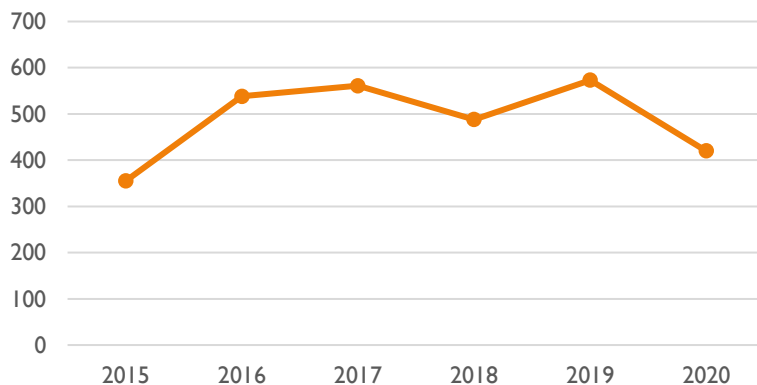
How Replacement is Decided

- ▲ Emergency vehicles are evaluated a vehicle by age, mileage, operating hours, physical condition, maintenance history, and opportunities to improve fleet efficiency and effectiveness.
 - Both engines are over 20 years old
 - San Bruno has historically had engines in the top three busiest in San Mateo County

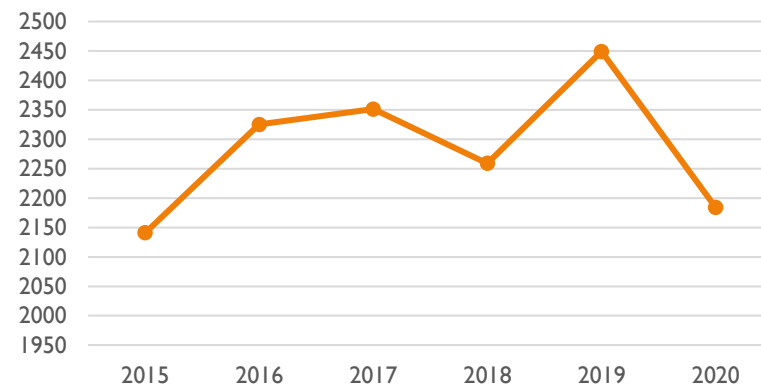


Call Volume by Unit

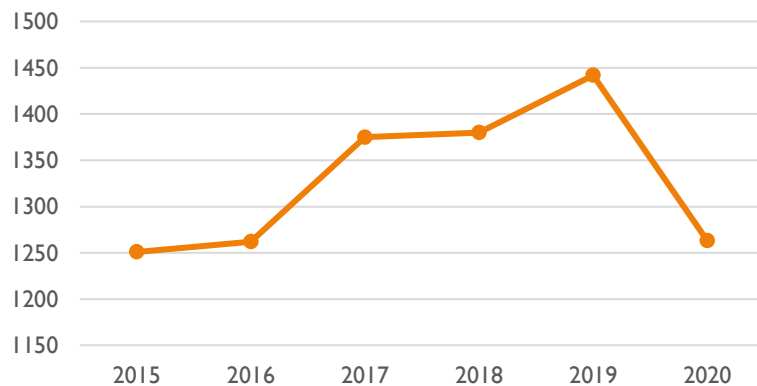
BC16



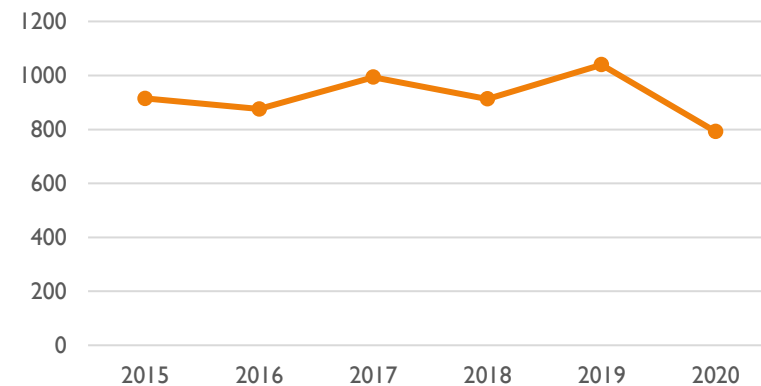
E-51



E52



T51

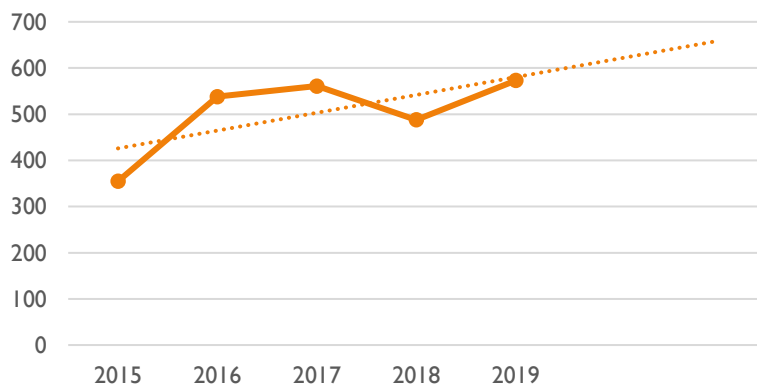


* COVID-19 Has decreased call volume

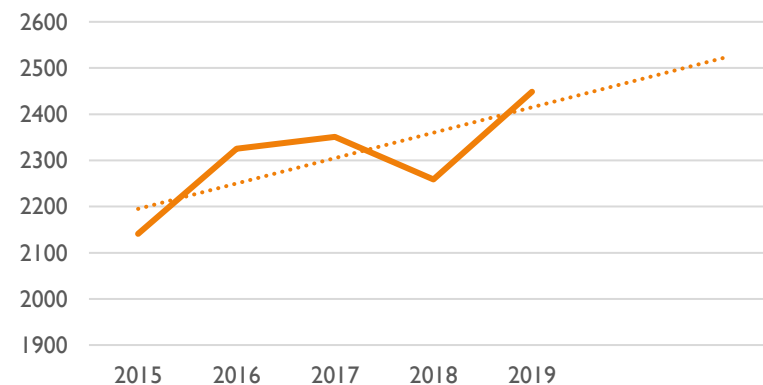


Call Volume Linear Forecast

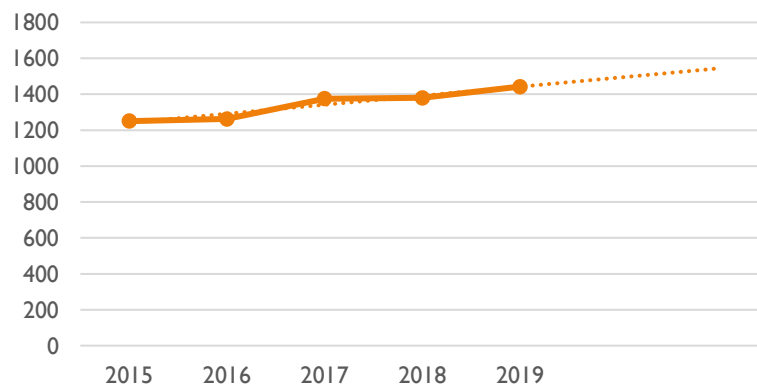
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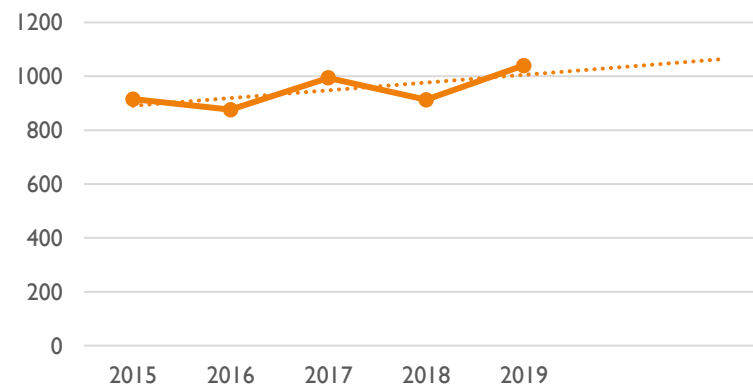
E-51



E52



T51



* 2020 Data has been removed



Replacement Options

▲ Refurbish

- Evaluated cost to upgrade components and technology
- Estimated cost 500 – 600K

▲ Used

- Evaluated possibly to purchase 8-10 year old vehicle
- Typically sold as is possibility of warranty at cost
- Retrofit cost additional
- Estimated cost 400K

▲ New

- Custom built for our needs
- 5 year bumper to bumper warranty
- Estimated cost 780K



Specification Development

▲ Apparatus Committee Selected

■ 6-month process

- Review manufacturers
- Select make & model
- Work with vendor to create complete specification



Purchasing

- ▲ HGACBuy would be proposed to meet procurement requirements
- ▲ CaLease program would be proposed for lease purchase



Current Lease Obligation

- ▲ Current lease obligation ends in October 2021
 - \$1,873,846
- ▲ New lease obligation would begin early 2022
 - Total lease purchase:\$1,600,000

Recommendation



- ▲ Adopt a Resolution authorizing the City Manager to execute contract with Golden State Fire Apparatus

Questions

